

WHAT IS CLAIMED IS:

1. A conductive roller comprising a core metal, and a conductive elastic layer disposed on a peripheral surface of said core metal, said conductive roller having an electrostatic capacity not more than 50pF at 100Hz and an electric resistance not less than $10^5\Omega$ nor more than $10^9\Omega$ at an applied voltage 1000V.
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2. The conductive roller according to claim 1, having an electrostatic capacity not less than 10pF at 100Hz.
3. The conductive roller according to claim 1, wherein an electrostatic capacity $C(L)$ at an alternating low frequency of $10^2\text{Hz}(L)$ and an electrostatic capacity $C(H)$ at an alternating high frequency of $10^5\text{Hz}(H)$ satisfy a relationship of:
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$$0 < (C(L) - C(H)) / (\log_{10}Hz(H) - \log_{10}Hz(L)) < 10$$
4. The conductive roller according to claim 2, wherein an electrostatic capacity $C(L)$ at an alternating low frequency of $10^2\text{Hz}(L)$ and an electrostatic capacity $C(H)$ at an alternating high frequency of $10^5\text{Hz}(H)$ satisfy a relationship of:
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$$0 < (C(L) - C(H)) / (\log_{10}Hz(H) - \log_{10}Hz(L)) < 10$$
5. The conductive roller according to claim 1, wherein said conductive elastic layer is composed of a rubber composition consisting of a rubber component and an ionic-conductive filler added to said rubber component; and
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said ionic-conductive filler consists of a lithium salt, a potassium salt, a quaternary ammonium salt or an imidazolyl salt
25 each having a fluoro group and a sulfonyl group capable of dissociating

into anions and cations.

6. The conductive roller according to claim 2, wherein said conductive elastic layer is composed of a rubber composition consisting of a rubber component and an ionic-conductive filler 5 added to said rubber component; and

 said ionic-conductive filler consists of a lithium salt, a potassium salt, a quaternary ammonium salt or an imidazolyl salt each having a fluoro group and a sulfonyl group capable of dissociating into anions and cations.

10 7. The conductive roller according to claim 3, wherein said conductive elastic layer is composed of a rubber composition consisting of a rubber component and an ionic-conductive filler added to said rubber component; and

 said ionic-conductive filler consists of a lithium salt, a 15 potassium salt, a quaternary ammonium salt or an imidazolyl salt each having a fluoro group and a sulfonyl group capable of dissociating into anions and cations.

8. The conductive roller according to claim 1, wherein said conductive elastic layer is composed of a rubber composition 20 containing a rubber component consisting of at least one rubber selected from among ethylene-propylene-diene terpolymer, acrylonitrile butadiene rubber, and butadiene rubber; and not less than 0.01 parts by weight nor more than 20 parts by weight of an anion-containing salt having a fluoro group and a sulfonyl group 25 added to 100 parts by weight of said rubber component as an

ionic-conductive filler.

9. The conductive roller according to claim 2, wherein said conductive elastic layer is composed of a rubber composition containing a rubber component consisting of at least one rubber 5 selected from among ethylene-propylene-diene terpolymer, acrylonitrile butadiene rubber, and butadiene rubber; and not less than 0.01 parts by weight nor more than 20 parts by weight of an anion-containing salt having a fluoro group and a sulfonyl group added to 100 parts by weight of said rubber component as an 10 ionic-conductive filler.

10. The conductive roller according to claim 3, wherein said conductive elastic layer is composed of a rubber composition containing a rubber component consisting of at least one rubber selected from among ethylene-propylene-diene terpolymer, 15 acrylonitrile butadiene rubber, and butadiene rubber; and not less than 0.01 parts by weight nor more than 20 parts by weight of an anion-containing salt having a fluoro group and a sulfonyl group added to 100 parts by weight of said rubber component as an ionic-conductive filler.

20 11. The conductive roller according to claim 4, wherein said conductive elastic layer is composed of a rubber composition containing a rubber component consisting of at least one rubber selected from among ethylene-propylene-diene terpolymer, acrylonitrile butadiene rubber, and butadiene rubber; and not less 25 than 0.01 parts by weight nor more than 20 parts by weight of an

anion-containing salt having a fluoro group and a sulfonyl group added to 100 parts by weight of said rubber component as an ionic-conductive filler.